

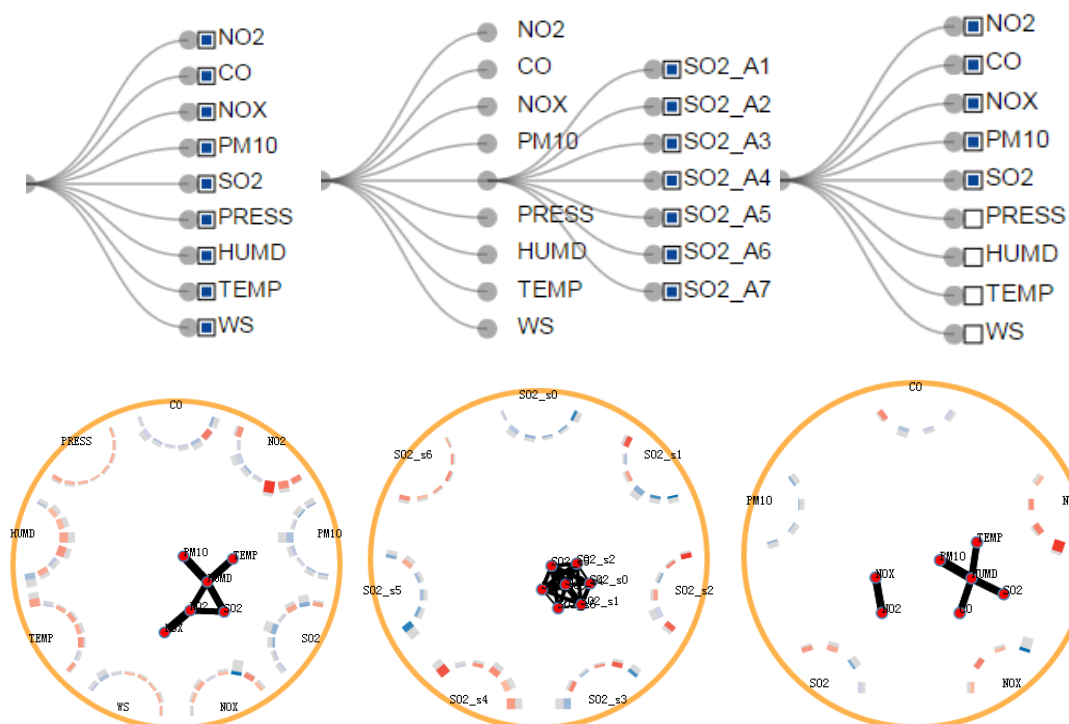
Weekly Report for 2015/08/10-2015/08/16

Guo Fangzhou

Progress

1. TCPTree Project

1) Finish the variable tree



This week I almost finished the interaction of variable tree and the visualization of relationships of sensors. The attributes are checkable now and the tcp tree will change correspondingly.

2. Revise vis 2015 submission

This week I talked with Prof. Wu, he suggested me to consider about weak ties and strong ties. I read the chapter about ties of the book *Networks, Crowds, and Markets*. In the vis submission, I mainly focused on the impact of one edge but when I calculated the impact of edges, I found out that an edge's impact is very small and is not significant to the whole graph. But adding different groups of edges to the graph or deleting different groups of edges from the graph will lead totally different results. So I think it might be better to study the impact of a set of edges to the graph, combining with weak ties and strong, as a single edge will not significantly change the state of other edges.

3. Large Graph Visualization

- 1) Write the design document for relation network visualization

I'm converting the format of the document into a more professional format and adding more details into it.

- 2) Netease data

I got the data of netease data. It is the chat log of the users. The data originally is link information of different nodes, therefore it is very easy to transform it into graph format.

Plan

1. TCPTree Project

Finish variable tree.

Finish the control panel and other interactions.

2. Revise vis2015 submission

3. Large Graph

- 1) Finish the design document.
- 2) Find the test data and try voronoi.

Apply the cluster and voronoi plan on the data, and test the performance.